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Saburo Morioka
Secretary of the Ministry of Economy, Trade and
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Patent Application

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Commissioner, Japan Patent Office

Nail clipper for pets

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Masayuki Kuzuu

Detailed Statement 1

Diagram 1

Summary 1

[Document title]
[Title of the invention]
[Scope of patent application]

Detailed statement
Nail clipper for pets

[Application item 1] It is a nail clipper with the following distinctive features. It has the blade pieces (A) that are created by dividing a sphere with a straight line into two equal pieces and further dividing each piece with a straight line into two equal pieces, or by dividing a ellipse with a straight line into two equal pieces and further dividing each piece with a straight line into two equal pieces, with each of the four pieces having a hollow interior. It attaches a blade (B) on one side of the blade piece (A) rim and cylinder-shaped pieces (C) with pin holes (D) on the opposite side of the blade piece (A) rim. It pairs two blade pieces (A), left and right, with the blade (B) facing and touching one another. It inserts a pin (H) through each of the two pin holes (D) and connects the cylinder-shaped pieces (C) with the holding pieces (J) with the pins (H) through the two holes, one on each end, on the holding pieces (J). The blade pieces (A) are able to open and retract with the pins (H) as the center of rotation. As a result, it is able to cut the nail of the pet placed between the blades (B) on the blade pieces (A).

[Application item 2] It is a nail clipper with the following distinctive features. It has the blade pieces (A) that are created by dividing a sphere with a straight line into two equal pieces and further dividing each piece with a straight line into two equal pieces with each of the four pieces having a hollow interior. It attaches a blade (B) on one side of the blade piece (A) rim and board (G) on the opposite side of the blade piece (A) rim. It cuts out the interior curvature of the blade piece (A) with the board (G) attached and joins the rim of the board (G) with the cylinder-shaped pieces (C) with pin holes (D). It pairs two blade pieces (A), left and right, with the blade (B) facing and touching one another. It inserts a pin (H) through each of the two pin holes (D) and connects the cylinder-shaped pieces (C) with the holding pieces (J) through the two holes, one on each end, on the holding pieces (J). It attaches a board (J) to each of the cylinder-shaped piece (C) and allows the blade piece (A) formed with the blades (B) facing one another to rotate with pin (H) as the center of rotation. It attaches the parts (E) to the blade pieces (A), cylinder-shaped piece (C) or to both the blade pieces (A) and the cylinder-shaped piece (C) and pierces the pin holes (F) on the parts (E). By having the parts (E) to open and retract with the pins (H) as the center of rotation, the blade pieces (A) are able to open and retract with the pins (H) as the center of

rotation. As a result, it is able to cut the nail of the pet placed between the blades (B) on the blade pieces (A). It connects the parts (E) to operating parts (L) at two positions, at right and left, by piercing pin holes at the edge of operating parts (L) and inserting pins (K) through parts (E) and operating parts (L). The two operating parts (L) cross one another near the center, and rotation pin (M) secures the two operating parts (L) together. On one end of the operating parts (L), opposite from where parts (E) are secured to operating parts (L) with pins (K), it has grips (N). By opening and closing the grips (N) located at the end of operating parts (L) with rotating pin (M) as the center of movement, parts (E) attached to operating parts (L) are able to replicate the opening and closing movements. The operating parts (L) are cut between the pins (K) and the rotating pin (M), and the butterfly nuts (P) are attaching the operating parts (L) together with the cut operating parts (L) overlapping at the cutting edges perpendicular to the opening and closing movement of the operating parts (L) and allow operating parts (L) to move at the butterfly nuts (P). The operation of the butterfly nuts (P) allows for preferential angle setting of the operating parts (L). It has a box (Q) attached at blade pieces (A), parts (E), board (J), cylinder-shaped piece (C) and the operating parts (L) at the portion where the pins (K) are attached. Box's (Q) function is containing and preventing the dispersion of cut pieces of nail. The box (Q) has a rectangular-shaped hole on its surface, and the size of the hole is identical to the perimeter of the board (J) and the cylinder-shaped (C) around the board (G). The box (Q) has nail container attached to it and also has a pair of grooves (S) on its surface to allow the operating parts (L) to have its ends with the pins (K) attached to open and retract. The box (Q) is split into two parts with each part having attachments to connect the two pieces in order to allow for easy detachment of the box (Q) from the whole unit. By opening and closing the grips (N) on the operating parts (L), rotating at the rotating pin (M), a pair of blade pieces (A) opens and retracts around the pins (H). As a result, it is able to cut the nail of the pet placed between the pair of blades (B) on the blade pieces (A).

[Application item 3] It is a nail clipper with the following distinctive features. It has the blade pieces (A) that are created by dividing an ellipse with a straight line into two equal pieces and further dividing each piece with a straight line into two equal pieces with each of the four pieces having a hollow interior. It attaches a blade (B) on one side of the blade piece (A) rim and board (G) on the opposite side of the blade piece (A) rim. It cuts out the interior curvature of the blade piece (A) with the board (G) attached and joins the rim of the board (G) with the cylinder-shaped pieces (C) with pin holes (D). It pairs two blade pieces (A), left and right, with the blade (B) facing and

touching one another. It inserts a pin (H) through each of the two pin holes (D) and connects the cylinder-shaped pieces (C) with the holding pieces (J) through the two holes, one on each end, on the holding pieces (J). It attaches a board (J) to each of the cylinder-shaped piece (C) and allows the blade piece (A) formed with the blades (B) facing one another to rotate with pin (H) as the center of rotation. It attaches the parts (E) to the blade pieces (A), cylinder-shaped piece (C) or to both the blade pieces (A) and the cylinder-shaped piece (C) and pierces the pin holes (F) on the parts (E). By having the parts (E) to open and retract with the pins (H) as the center of rotation, the blade pieces (A) are able to open and retract with the pins (H) as the center of rotation. As a result, it is able to cut the nail of the pet placed between the blades (B) on the blade pieces (A). It connects the parts (E) to operating parts (L) at two positions, at right and left, by piercing pin holes at the edge of operating parts (L) and inserting pins (K) through parts (E) and operating parts (L). The two operating parts (L) cross one another near the center, and rotation pin (M) secures the two operating parts (L) together. On one end of the operating parts (L), opposite from where parts (E) are secured to operating parts (L) with pins (K), it has grips (N). By opening and closing the grips (N) located at the end of operating parts (L) with rotating pin (M) as the center of movement, parts (E) attached to operating parts (L) are able to replicate the opening and closing movements. The operating parts (L) are cut between the pins (K) and the rotating pin (M), and the butterfly nuts (P) are attaching the operating parts (L) together with the cut operating parts (L) overlapping at the cutting edges perpendicular to the opening and closing movement of the operating parts (L) and allow operating parts (L) to move at the butterfly nuts (P). The operation of the butterfly nuts (P) allows for preferential angle setting of the operating parts (L). It has a box (Q) attached at blade pieces (A), parts (E), board (J), cylinder-shaped piece (C) and the operating parts (L) at the portion where the pins (K) are attached. Box's (Q) function is containing and preventing the dispersion of cut pieces of nail. The box (Q) has a rectangular-shaped hole on its surface, and the size of the hole is identical to the perimeter of the board (J) and the cylinder-shaped (C) around the board (G). The box (Q) has nail container attached to it and also has a pair of grooves (S) on its surface to allow the operating parts (L) to have its ends with the pins (K) attached to open and retract. The box (Q) is split into two parts with each part having attachments to connect the two pieces in order to allow for easy detachment of the box (Q) from the whole unit. By opening and closing the grips (N) on the operating parts (L), rotating at the rotating pin (M), a pair of blade pieces (A) opens and retracts around the pins (H). As a result, it is able to cut the nail of the pet placed between the pair of blades

(B) on the blade pieces (A).

[Detailed description of the invention]

[0001]

[Technological field the invention belongs in]

Technology of nail clipper for pets such as dogs and cats

[0002]

[Traditional technology]

When the nails are cut with traditional nail clipper for pets, the nail edges are cut at straight edge, resulting in sharper nails.

[0003]

[The issue the invention attempts to solve]

It produces smooth nail edges with single cutting action.

[0004]

[Method used to solve the issue]

It is a nail clipper with the following distinctive features. It has the blade pieces (A) that are created by dividing a sphere or ellipse into four equal pieces and hollowing the interior. It attaches a blade (B) on one side of the blade piece (A) rim and cylinder-shaped pieces (C) with pin holes (D) on the opposite side of the blade piece (A) rim. It pairs two blade pieces (A), left and right, with the blade (B) facing and touching one another. It inserts a pin (H) through each of the two pin holes (D) and connects the cylinder-shaped pieces (C) with the holding pieces (J) through the two holes, one on each end, on the holding pieces (J) with the pins (H). The blade pieces (A) are able to open and retract with the pins (H) as the center of rotation. As a result, it is able to cut the nail of the pet placed between the blades (B) on the blade pieces (A).

[0005]

[Application of the invention]

It is a nail clipper with the following distinctive features. It has the blade pieces (A), made of material such as metal, that are created by dividing a sphere with a straight line into two equal pieces and further dividing each piece with a straight line into two equal pieces, or by dividing a ellipse with a straight line into two equal pieces and further dividing each piece with a straight line into two equal pieces, with each of the

four pieces having a hollow interior. It attaches a blade (B) on one side of the blade piece (A) rim and cylinder-shaped pieces (C) with pin holes (D), made of material such as metal, on the opposite side of the blade piece (A) rim. It pairs two blade pieces (A), left and right, with the blade (B) facing and touching one another. It inserts a pin (H), made of material such as metal, through each of the two pin holes (D) and connects the cylinder-shaped pieces (C) with the holding pieces (J), made of material such as metal, with the pins (H) through the two holes, one on each end, on the holding pieces (J). The blade pieces (A) are able to open and retract with the pins (H) as the center of rotation. As a result, it is able to cut the nail of the pet placed between the blades (B) on the blade pieces (A).

[0006]

It is a nail clipper with the following distinctive features. It has the blade pieces (A), made of material such as metal, that are created by dividing a sphere with a straight line into two equal pieces and further dividing each piece with a straight line into two equal pieces, or by dividing a ellipse with a straight line into two equal pieces and further dividing each piece with a straight line into two equal pieces, with each of the four pieces having a hollow interior. It attaches a blade (B) on one side of the blade piece (A) rim and board (G), made of material such as metal, on the opposite side of the blade piece (A) rim. It cuts out the interior curvature of the blade piece (A) with the board (G) attached and joins the rim of the board (G) with the cylinder-shaped pieces (C) with pin holes (D), made of material such as metal. It pairs two blade pieces (A), left and right, with the blade (B) facing and touching one another. It inserts a pin (H), made of material such as metal, through each of the two pin holes (D) and connects the cylinder-shaped pieces (C) with the holding pieces (J) through the two holes, one on each end, on the holding pieces (J), made of material such as metal. It attaches a board (J) to each of the cylinder-shaped piece (C) and allows the blade piece (A) formed with the blades (B) facing one another to rotate with pin (H) as the center of rotation. It attaches the parts (E) to the blade pieces (A), cylinder-shaped piece (C) or to both the blade pieces (A) and the cylinder-shaped piece (C) and pierces the pin holes (F) on the parts (E). By having the parts (E) to open and retract with the pins (H) as the center of rotation, the blade pieces (A) are able to open and retract with the pins (H) as the center of rotation. As a result, it is able to cut the nail of the pet placed between the blades (B) on the blade pieces (A). It connects the parts (E) to operating parts (L) at two positions, at right and left, by piercing pin holes at the edge of operating parts (L), made of material such as metal, and inserting pins (K), made of material such as metal,

through parts (E) and operating parts (L). The two operating parts (L) cross one another near the center, and rotation pin (M), made of material such as metal, secures the two operating parts (L) together. On one end of the operating parts (L), opposite from where parts (E) are secured to operating parts (L) with pins (K), it has grips (N). By opening and closing the grips (N) located at the end of operating parts (L) with rotating pin (M) as the center of movement, parts (E) attached to operating parts (L) are able to replicate the opening and closing movements. The operating parts (L) are cut between the pins (K) and the rotating pin (M), and the butterfly nuts (P), made of material such as metal, are attaching the operating parts (L) together with the cut operating parts (L) overlapping at the cutting edges perpendicular to the opening and closing movement of the operating parts (L) and allow operating parts (L) to move at the butterfly nuts (P). The operation of the butterfly nuts (P) allows for preferential angle setting of the operating parts (L). It has a box (Q) attached at blade pieces (A), parts (E), board (J), cylinder-shaped piece (C) and the operating parts (L) at the portion where the pins (K) are attached. Box (Q) is made of material such as high molecular compound, and its function is containing and preventing the dispersion of cut pieces of nail. The box (Q) has a rectangular-shaped hole on its surface, and the size of the hole is identical to the perimeter of the board (J) and the cylinder-shaped (C) around the board (G). The box (Q) has nail container attached to it and also has a pair of grooves (S) on its surface to allow the operating parts (L) to have its ends with the pins (K) attached to open and retract. The box (Q) is split into two parts with each part having attachments to connect the two pieces in order to allow for easy detachment of the box (Q) from the whole unit. By opening and closing the grips (N) on the operating parts (L), rotating at the rotating pin (M), a pair of blade pieces (A) opens and retracts around the pins (H). As a result, it is able to cut the nail of the pet placed between the pair of blades (B) on the blade pieces (A).

[0007]

[Application example]

This paragraph illustrates the first application example of this nail clipper with the following distinctive features. It has the blade pieces (A) with 9mm diameter and 1mm thickness made of metal that are created by dividing a sphere with a straight line into two equal pieces and further dividing each piece with a straight line into two equal pieces with each of the four pieces having a hollow interior. It attaches a blade (B) on one side of the blade piece (A) rim and board (G) made of metal on the opposite side of the blade piece (A) rim. It cuts out the interior curvature of the blade piece (A) with

the board (G) attached and joins the rim of the board (G) with the 3.5 mm diameter cylinder-shaped pieces (C) made of metal with 1.5mm diameter pin holes (D). It pairs two blade pieces (A), left and right, with the blade (B) facing and touching one another. It inserts a pin (H), made of material such as metal, through each of the two pin holes (D) and connects the cylinder-shaped pieces (C) with the holding pieces (J) through the two holes, one on each end, on the holding pieces (J) made of metal. It attaches a board (J) to each of the cylinder-shaped piece (C) and allows the blade piece (A) formed with the blades (B) facing one another to rotate with pin (H) as the center of rotation. It attaches the parts (E) to the blade pieces (A), cylinder-shaped piece (C) or to both the blade pieces (A) and the cylinder-shaped piece (C) and pierces the 1.5mm diameter pin holes (F) on the parts (E). By having the parts (E) to open and retract with the pins (H) as the center of rotation, the blade pieces (A) are able to open and retract with the pins (H) as the center of rotation. As a result, it is able to cut the nail of the pet placed between the blades (B) on the blade pieces (A). It connects the parts (E) to operating parts (L) at two positions, at right and left, by piercing 1.5mm diameter pin holes at the edge of operating parts (L) made of metal, and inserting 1.5mm diameter pins (K), made of metal, through parts (E) and operating parts (L). The two operating parts (L) cross one another near the center, and rotation pin (M), made of material such as metal, secures the two operating parts (L) together. On one end of the operating parts (L), opposite from where parts (E) are secured to operating parts (L) with pins (K), it has grips (N). By opening and closing the grips (N) located at the end of operating parts (L) with rotating pin (M) as the center of movement, parts (E) attached to operating parts (L) are able to replicate the opening and closing movements. The operating parts (L) are cut between the pins (K) and the rotating pin (M), and the 4mm diameter butterfly nuts (P) made of metal are attaching the operating parts (L) together with the cut operating parts (L) overlapping at the cutting edges perpendicular to the opening and closing movement of the operating parts (L) and allow operating parts (L) to move at the butterfly nuts (P). The operation of the butterfly nuts (P) allows for preferential angle setting of the operating parts (L). It has a box (Q) attached at blade pieces (A), parts (E), board (J), cylinder-shaped piece (C) and the operating parts (L) at the portion where the pins (K) are attached. Box (Q) is made of transparent plastic, and its function is containing and preventing the dispersion of cut pieces of nail. The box (Q) has a rectangular-shaped hole on its surface, and the size of the hole is identical to the perimeter of the board (J) and the cylinder-shaped (C) around the board (G). The box (Q) has nail container attached to it and also has a pair of grooves (S) on its surface to allow the operating parts (L) to

have its ends with the pins (K) attached to open and retract. The box (Q) is split into two parts with each part having hook-shaped attachments to connect the two pieces in order to allow for easy detachment of the box (Q) from the whole unit. By opening and closing the grips (N) on the operating parts (L), rotating at the rotating pin (M), a pair of blade pieces (A) opens and retracts around the pins (H). As a result, it is able to cut the nail of the pet placed between the pair of blades (B) on the blade pieces (A).

[0008]

This paragraph illustrates the second application example of this nail clipper with the following distinctive features. It has the blade pieces (A) made of metal that are created by dividing an ellipse, with diameters of 10mm and 7mm and 1mm thickness, with a straight line into two equal pieces and further dividing each piece with a straight line into two equal pieces with each of the four pieces having a hollow interior. It attaches a blade (B) on one side of the blade piece (A) rim and board (G) made of metal on the opposite side of the blade piece (A) rim. It cuts out the interior curvature of the blade piece (A) with the board (G) attached and joins the rim of the board (G) with the 3.5 mm diameter cylinder-shaped pieces (C) made of metal with 1.5mm diameter pin holes (D). It pairs two blade pieces (A), left and right, with the blade (B) facing and touching one another. It inserts a pin (H), made of material such as metal, through each of the two pin holes (D) and connects the cylinder-shaped pieces (C) with the holding pieces (J) through the two holes, one on each end, on the holding pieces (J) made of metal. It attaches a board (J) to each of the cylinder-shaped piece (C) and allows the blade piece (A) formed with the blades (B) facing one another to rotate with pin (H) as the center of rotation. It attaches the parts (E) to the blade pieces (A), cylinder-shaped piece (C) or to both the blade pieces (A) and the cylinder-shaped piece (C) and pierces the 1.5mm diameter pin holes (F) on the parts (E). By having the parts (E) to open and retract with the pins (H) as the center of rotation, the blade pieces (A) are able to open and retract with the pins (H) as the center of rotation. As a result, it is able to cut the nail of the pet placed between the blades (B) on the blade pieces (A). It connects the parts (E) to operating parts (L) at two positions, at right and left, by piercing 1.5mm diameter pin holes at the edge of operating parts (L) made of metal, and inserting 1.5mm diameter pins (K), made of metal, through parts (E) and operating parts (L). The two operating parts (L) cross one another near the center, and rotation pin (M), made of material such as metal, secures the two operating parts (L) together. On one end of the operating parts (L), opposite from where parts (E) are secured to operating parts (L) with pins (K), it has grips (N). By opening and closing the grips (N) located at the end of operating parts (L) with rotating pin (M) as the

center of movement, parts (E) attached to operating parts (L) are able to replicate the opening and closing movements. The operating parts (L) are cut between the pins (K) and the rotating pin (M), and the 4mm diameter butterfly nuts (P) made of metal are attaching the operating parts (L) together with the cut operating parts (L) overlapping at the cutting edges perpendicular to the opening and closing movement of the operating parts (L) and allow operating parts (L) to move at the butterfly nuts (P). The operation of the butterfly nuts (P) allows for preferential angle setting of the operating parts (L). It has a box (Q) attached at blade pieces (A), parts (E), board (J), cylinder-shaped piece (C) and the operating parts (L) at the portion where the pins (K) are attached. Box (Q) is made of transparent plastic, and its function is containing and preventing the dispersion of cut pieces of nail. The box (Q) has a rectangular-shaped hole on its surface, and the size of the hole is identical to the perimeter of the board (J) and the cylinder-shaped (C) around the board (G). The box (Q) has nail container attached to it and also has a pair of grooves (S) on its surface to allow the operating parts (L) to have its ends with the pins (K) attached to open and retract. The box (Q) is split into two parts with each part having hook-shaped attachments to connect the two pieces in order to allow for easy detachment of the box (Q) from the whole unit. By opening and closing the grips (N) on the operating parts (L), rotating at the rotating pin (M), a pair of blade pieces (A) opens and retracts around the pins (H). As a result, it is able to cut the nail of the pet placed between the pair of blades (B) on the blade pieces (A).

[0009]

[Effect of the invention]

It produces smooth nail edges with single cutting action.

[Simple description of the diagram]

[Diagram 1]

The nail clipper for pets illustrated in first and second application examples.

[Diagram 2]

The nail clipper for pets illustrated in first and second application examples without the nail containment box (Q).

[Diagram 3]

The nail clipper for pets illustrated in first and second application examples with the nail containment box (Q).

[Diagram marks]

(A) Blade piece

(B) Blade on blade piece (A)

(C) Cylinder-shaped piece

(D) Pin hole

(E) Part

(F) Pin hole

(G) Board

(H) Pin

(J) Board attaching cylinder-shaped piece (C) and pin (H)

(K) Pin

(L) Operating piece that allows part (E) to open and retract with (H) as the rotation center

(M) Rotation center of the opening and retracting movement

(N) Grip on operating piece (L)

(P) Butterfly nut for angle adjustment

(Q) Box to prevent and contain spreading of cut nails made of material such as high molecular compound

(R) Piece that holds the cut nails

(S) Pair of grooves on the surface of box (Q)

[Document title]
[Diagram 1]

Diagram

Cross section of the elevation view

Top view

[Diagram 2]

Elevation view

Side view

[Diagram 3]

Elevation view

Side view

[Document title]

Summary

[Summary]

[Issue]

It produces smooth nail edges with single cutting action.

[Method used to solve the issue]

It has the blade pieces (A) that are created by dividing a sphere or an ellipse into four equal pieces with each having a hollow interior. It attaches a blade (B) on one side of the blade piece (A) rim and cylinder-shaped pieces (C) with pin holes (D) on the opposite side of the blade piece (A) rim. It pairs two blade pieces (A), left and right, with the blade (B) facing and touching one another. It inserts a pin (H) through each of the two pin holes (D) and connects the cylinder-shaped pieces (C) with the holding pieces (J) with the pins (H) through the two holes, one on each end, on the holding pieces (J). The blade pieces (A) are able to open and retract with the pins (H) as the center of rotation. As a result, it is able to cut the nail of the pet placed between the blades (B) on the blade pieces (A), and produce smooth nail edges with single cutting action.

[Selected diagram] Diagram 2